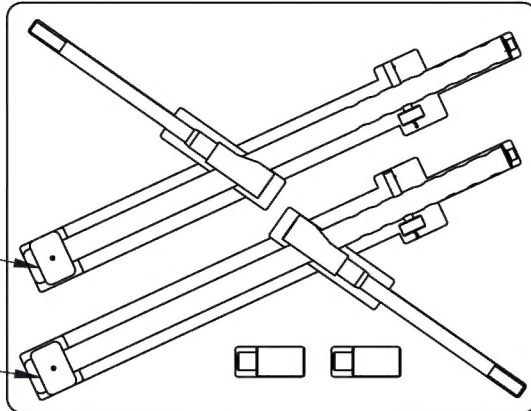



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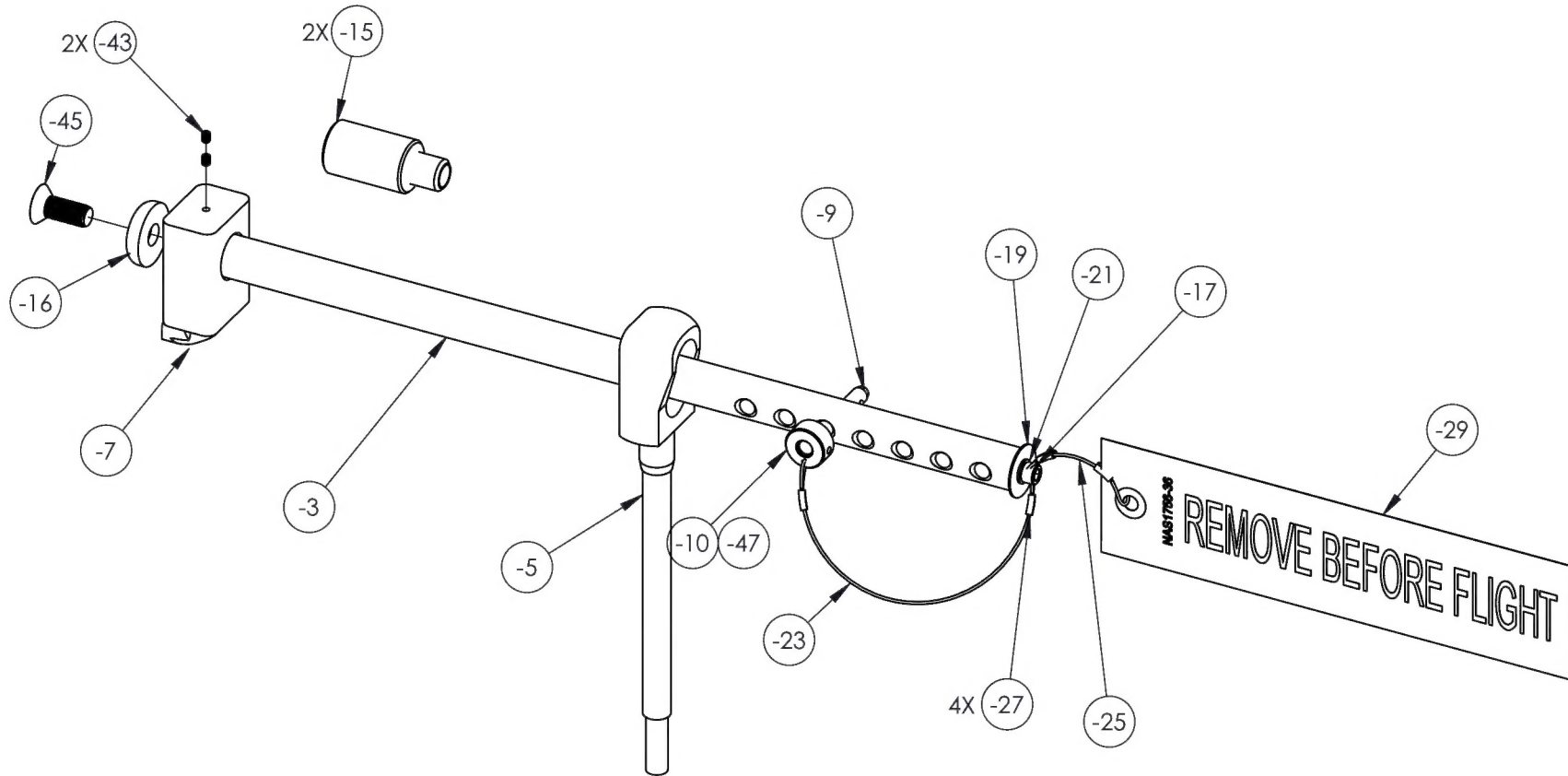
REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	-3 ADDED Ø.190 $\nabla$ .03 HOLE FOR -43 SET SCREW. -5 CH'D 1/4-20 UNC COUNTERSINK WAS $\nabla$ Ø.38 X 90° IS $\nabla$ Ø.50 X 60°. -7 ADDED #10-32 $\nabla$ .60 HOLE FOR -43. -13 ADDED MISSING THREAD CALL OUT 2X 1/4-20. BOM -31 CH'D LENGTH WAS 3/4 IS 5/8. -43 ADDED TO BOM & -1 ASSY. -3, -5, -7, -15 CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/3/2013	RJC	DW
1	-3, -5, -7, -15 CH'D FINISH WAS RED ANODIZE IS .0004-.0006 NICKEL PLATE AND ADDED BAKE NOTE. -11 ASSY. REPLACED WITH -15, DELETED -13 & -31. ADDED PARTS -10, -16 AND -45, -47. -3 CAP REMOVED. ADDED TAPPED HOLE 1/2-13 $\nabla$ 1.00. CH'D MATERIAL WAS 6061 IS 1018 CD. CH'D ROD DIA. WAS .99 IS 1.00. CH'D HOLE CALLOUT WAS 7X Ø.377 IS 7X Ø.386. -5 REMOVED 1/4-20 $\nabla$ .75 THREADED HOLE AND ADDED EXTERNAL 1/2-10-3G ACME THREAD. INCREASED LENGTH OF SHAFT AND LENGTH OF SLOT. CH'D MATERIAL WAS 6061 IS 4140 HEAT TREATED. -7 CH'D MATERIAL WAS 6061 IS 1018 CD. -9 DELETED ONE Ø.15 HOLE, CH'D ONE HOLE WAS Ø.15 IS .156 - .160 P.F. -47. -15 CH'D GRIP LENGTH WAS .75 IS 2.00 AND OVERALL LENGTH CH'D WAS 1.75 IS 2.82. CH'D MATL WAS 6061 IS 1018 CD. REMOVED PIN HOLE AND THREADED HOLE. ADDED 1/2-10-3G ACME THREADS WITH COUNTER BORE. -33 CH'D CUTOUTS FOR -1 AND -15. -16 ADDED TO BOM AND -1 ASSY. -10 ADDED KNOB TO PUT ON -9.	9/27/13	PW	DW

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-1	2	GAG BAR ASSEMBLY			2
	1		-3		ROD	1018 CD	Ø1 X 21-5/8	3
	1		-5		PIN BLOCK	4140	Ø2 X 12	4
	1		-7		HOOK BLOCK	1018 CD	Ø2 X 2 X 3-3/4	5
	1		-9		QUICK RELEASE PIN	S.S.	Ø3/8 X 2 MCMaster-CARR #98404A925 (MODIFIED)	6
	1		-10		KNOB	1018	Ø1 X 5/8	11
	1		-15		KNOB	1018 CD	Ø1-1/4 X 3	7
	1		-16		BUTTON	1018 CD	Ø1-1/2 X 5/8	10
	1	B/O	-17		SOCKET HEAD CAP SCREW	S.S.	5/16-24 X 1/2 MCMaster-CARR #92196A335	2
	1	B/O	-19		WASHER	S.S.	Ø5/16 X 1-1/4 MCMaster-CARR #90313A111	2
	1	B/O	-21		WASHER	S.S.	Ø5/16 MCMaster-CARR #98017A690	2
	1	B/O	-23		LANYARD	COATED STEEL	Ø1/16 X 10 CARR LANE #CL2C	2
	1	B/O	-25		LANYARD	COATED STEEL	Ø1/16 X 3 CARR LANE #CL2C	2
	4	B/O	-27		FERRULE	ALUMINUM	Ø1/16 X 3/8 MCMaster-CARR #3896T31	2
	1	B/O	-29		REMOVE BEFORE FLIGHT	NYLON	NAS 1756-36	2
		B/O	-33	1	BOTTOM TOOL CUSHION	Y20 BLACK	17.09 X 22.09 X 6.10	8
		B/O	-35	1	TOP TOOL CUSHION	Y-20 BLACK	17.09 X 22.09 X 1.90	9
		B/O	-37	1	CASE	PLASTIC	PELICAN #APP-IM2700-E	NS
		B/O	-39	1	RED BARN PLACARD	ALUMINUM	RB41009	NS
		B/O	-41	4	RIVET	ALUMINUM	Ø1/8 X 3/8 EUGENE FASTNER & SUPPLY RAA46X	NS
	2	B/O	-43		CUP POINT SET SCREW	S.S.	#10-32 X 1/4 MCMaster-CARR #92313A825	2
	1	B/O	-45		FLAT HEAD SCREW	PLATED ALLOY STEEL	1/2-13 X 1-1/4 MCMaster-CARR #91263A603	2
	1	B/O	-47		SPLIT PIN	STEEL	Ø5/32 X 7/8 MCMaster-CARR #90692A712	2
ASSY	-1							


 <b>RED BARN MACHINE</b>		TITLE	
		<b>AW139 GAG BAR</b>	
DWG NO.		REV	
<b>RBW10003</b>		<b>1</b>	
MAT'L		DRAWN BY: GILBERT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1		APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL <b>AW139</b>	
SCALE	1:8	DATE	7/23/2013
		SHEET 1 OF 11	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-11 ASSY. REPLACED WITH -15, DELETED -13 & -31. ADDED -10, -16 AND -45, -47.	9/27/13	PW	DW

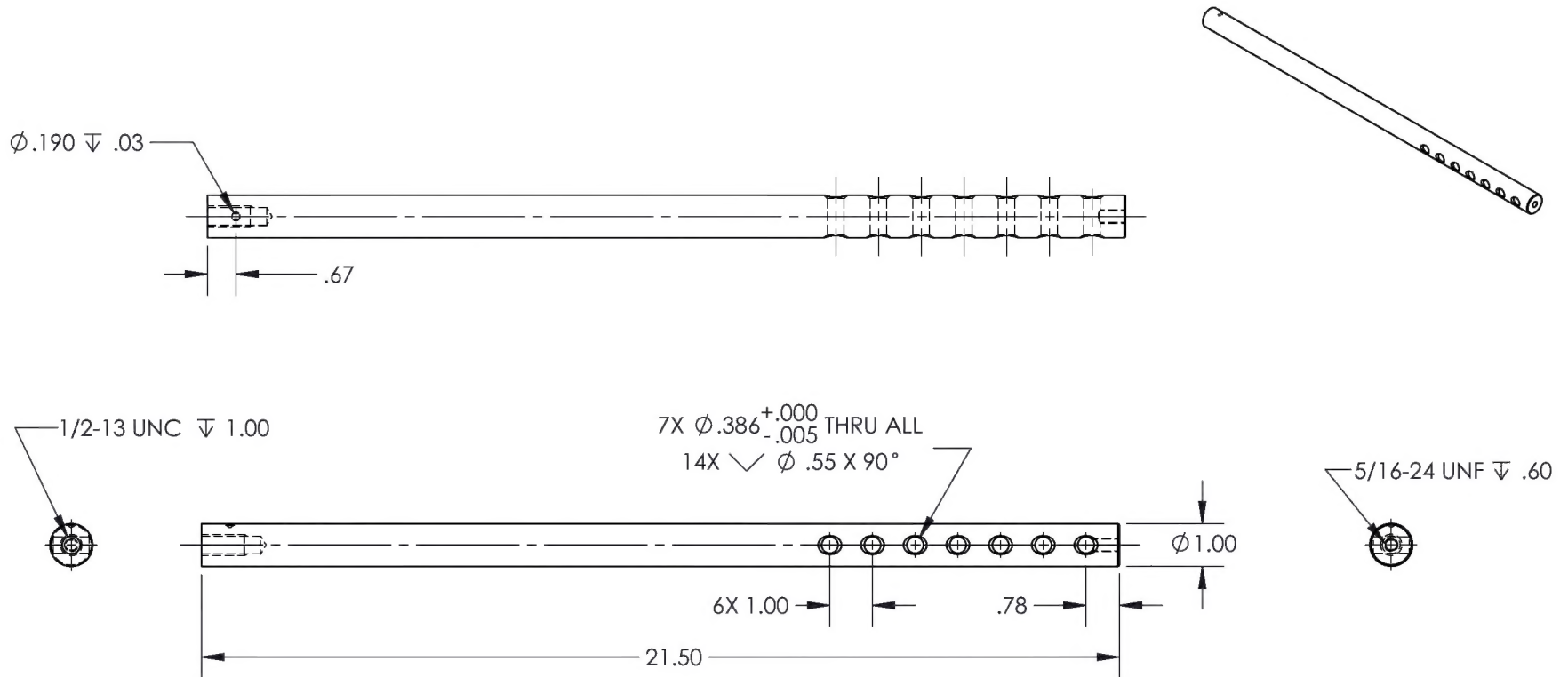


(1)  
GAG BAR ASSEMBLY

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> AW139 GAG BAR	
<b>DWG NO.</b> RBW10003-1	<b>REV</b> <b>1</b>
<b>MAT'L</b> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	<b>DRAWN BY:</b> GILBERT <b>APPROVED</b> <i>D Weil</i> <b>HEAT TREAT</b> <b>FINISH</b> <b>SPEC</b> USED ON MODEL AW 139
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
<b>SCALE</b> 1:4	<b>DATE</b> 3/21/2013
<b>SHEET 2 OF 11</b>	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	-3 ADDED $\varnothing .190 \pm .03$ HOLE FOR -43 SET SCREW. CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/3/2013	RJC	DW
1	-3 CAP REMOVED. ADDED TAPPED HOLE 1/2-13 $\pm 1.00$ . CH'D MATERIAL WAS 6061 IS 1018 CD. CH'D FINISH WAS ANODIZE RED IS NICKEL PLATE. CH'D ROD DIA. WAS .99 IS 1.00. CH'D HOLE CALLOUT WAS 7X $\varnothing .377$ IS 7X .386.	9/27/13	PW	DW



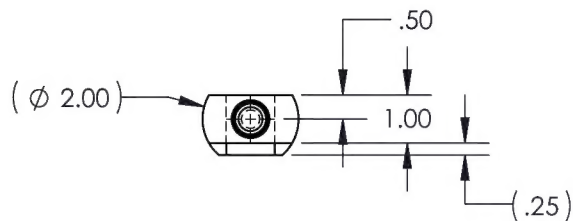
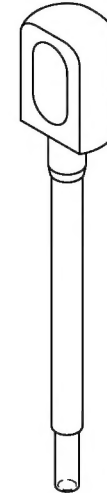
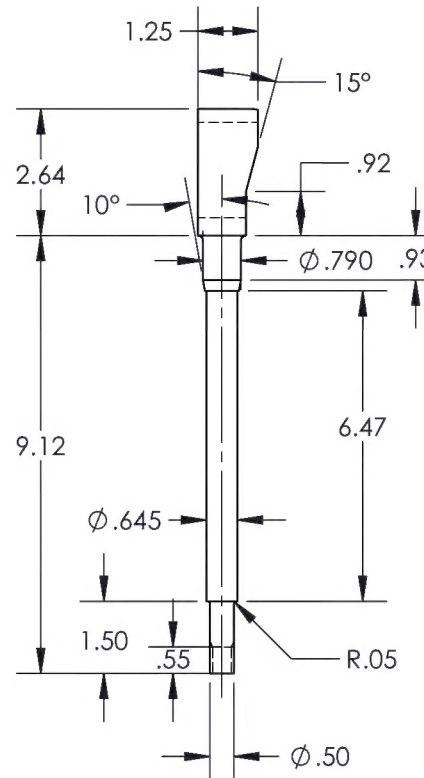
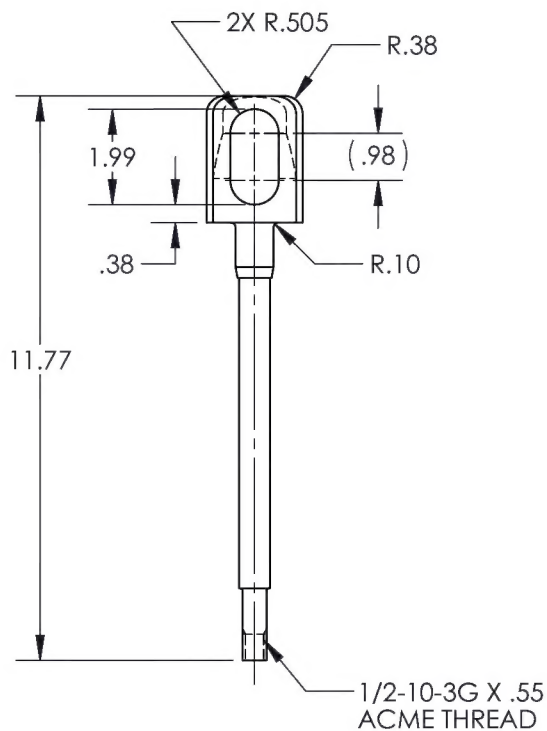
NOTE:  
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

(-3)  
ROD

RED BARN MACHINE	
TITLE AW139 GAG BAR	
DWG NO. RBW10003-3	REV 1
MAT'L 1018 CD	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm .005$	HEAT TREAT
.XX $\pm .01$	FINISH NICKEL PLATE
.X $\pm .1$	SPEC SEE NOTE
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:4	DATE 5/31/2012
SHEET 3 OF 11	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	-5 CH'D 1/4-20 UNC COUNTERSINK WAS $\nabla \phi .38 \times 90^\circ$ IS $\nabla \phi .50 \times 60^\circ$ . CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/3/2013	RJC	DW
1	-5 REMOVED 1/4-20 $\nabla .75$ THREADED HOLE AND ADDED EXTERNAL 1/2-10-3G ACME THREAD. INCREASED LENGTH OF SHAFT AND LENGTH OF SLOT. CH'D MATERIAL WAS 6061 IS 4140 HEAT TREATED. CH'D FINISH WAS ANODIZE RED IS .0004-.0006 NICKEL PLATE AND ADDED BAKE NOTE.	9/26/2013	PW	DW



(-5)

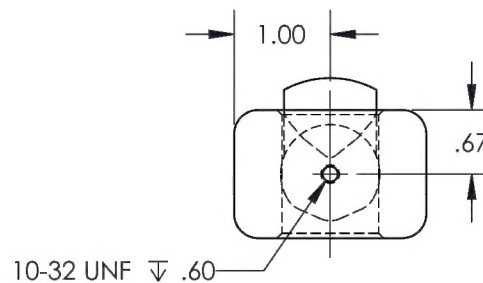
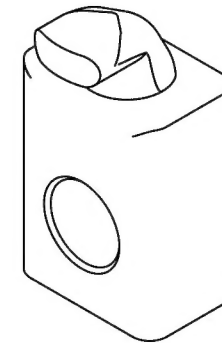
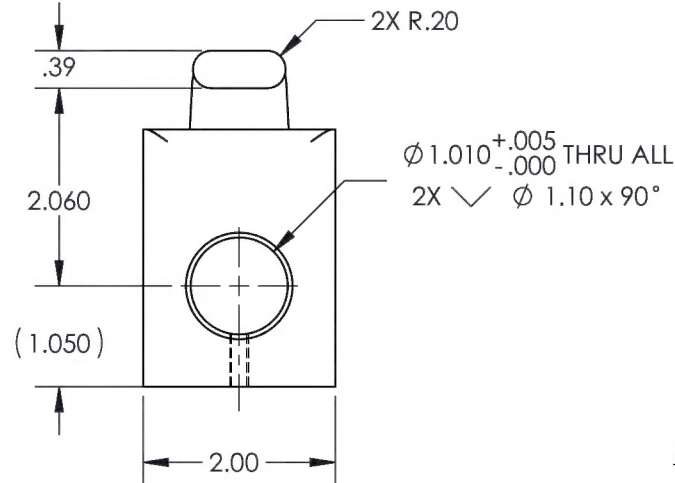
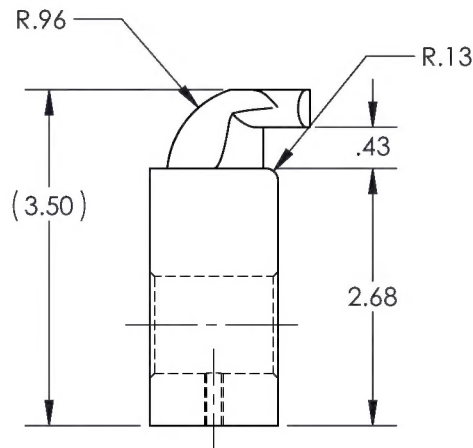
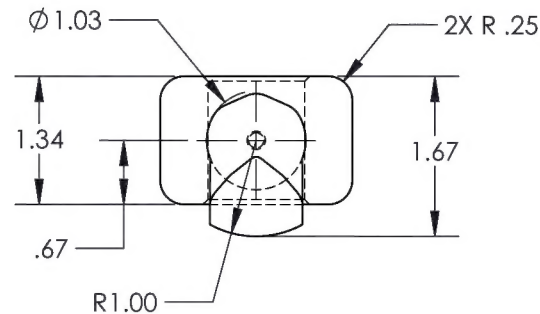
PIN BLOCK

NOTE:  
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

<b>RED BARN MACHINE</b>	
TITLE <b>AW139 GAG BAR</b>	
DWG NO. <b>RBT10003-5</b>	REV <b>1</b>
MAT'L 4140	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT RC 35-39
.XX ± .01	FINISH NICKEL PLATE
.X ± .1	SPEC SEE NOTE
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:3	DATE 5/31/2012
SHEET 4 OF 11	

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REVISION				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	-7 ADDED #10-32 $\nabla$ .60 HOLE FOR -43. CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/3/2013	RJC	DW
1	-7 CH'D MATERIAL WAS 6061 IS 1018 CD. CH'D FINISH WAS ANODIZE RED IS .0004-.0006 NICKEL PLATE AND ADDED BAKE NOTE. CH'D HOLE DIA WAS 1.000 IS 1.010.	9/27/2013	PW	DW



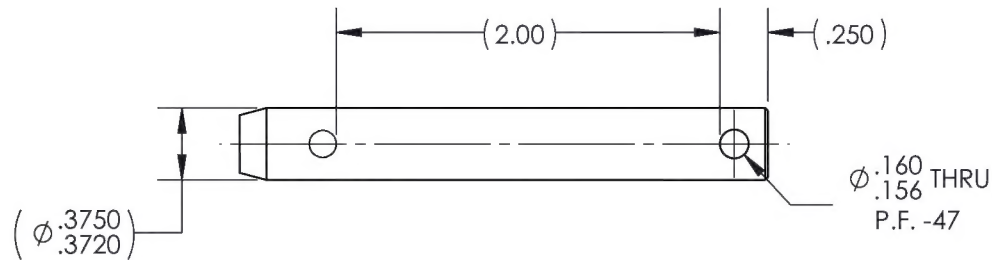
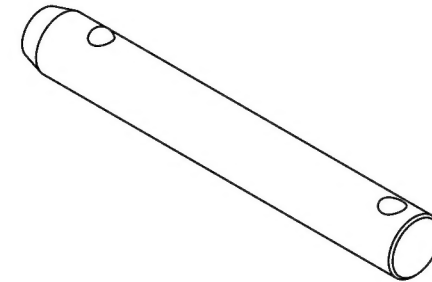
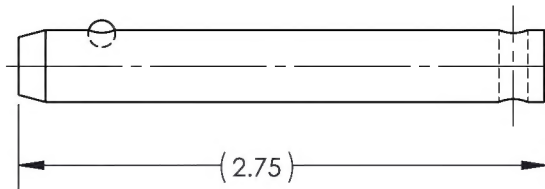
(-7)  
HOOK BLOCK

- NOTE:  
1. ALL PARTS MUST CONFORM TO FIXTURE RBW10003-TEST.  
2. NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

<b>RED BARN MACHINE</b>	
<b>AW139 GAG BAR</b>	
DWG NO. <b>RBW10003-7</b>	REV <b>1</b>
MAT'L 1018 CD	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	APPROVED <i>D Weil</i>
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	HEAT TREAT NICKEL PLATE
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SPEC SEE NOTE 2
	USED ON MODEL AW139
SCALE 1:2	DATE 5/31/2012
	SHEET 5 OF 11


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-9 DELETED ONE Ø.15 HOLE, CH'D ONE HOLE WAS Ø.15 IS .156-.160 P.F. -47.	12/26/2013	RJC	DW



(-9)

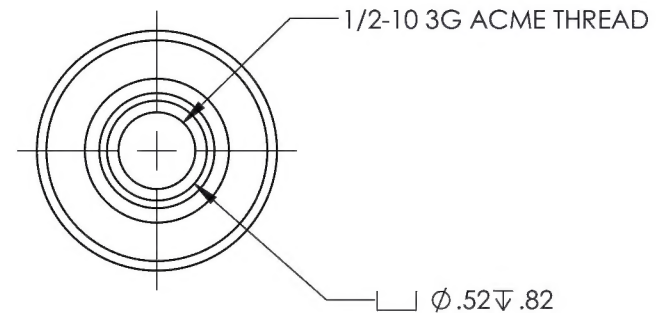
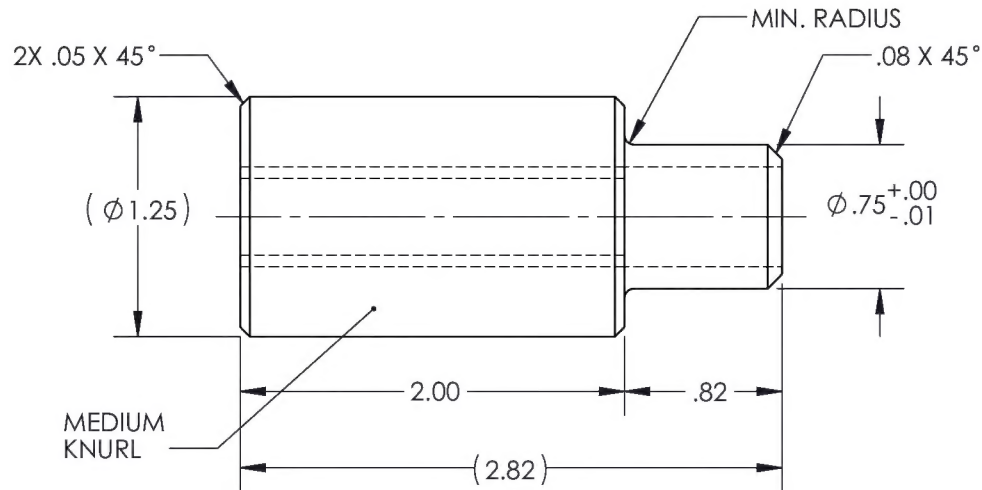
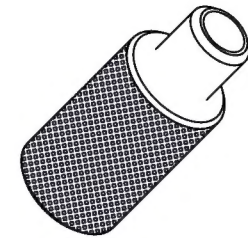
QUICK RELEASE PIN

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> <b>AW139 GAG BAR</b>	
<b>DWG NO.</b> <b>RBW10003-9</b>	<b>REV</b> <b>1</b>
<b>MAT'L S.S.</b> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	<b>DRAWN BY:</b> GILBERT <b>APPROVED</b> <i>D Weil</i> <b>HEAT TREAT</b> <b>FINISH</b> <b>SPEC</b> 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING
<b>SCALE</b> 1:2	<b>DATE</b> 6/13/2013 <b>SHEET</b> 6 OF 11



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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	-15 CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/5/2013	RJC	DW
1	-15 CH'D GRIP LENGTH WAS .75 IS 2.00 AND OVERALL LENGTH CH'D WAS 1.75 IS 2.82. CH'D MAT'L WAS 6061 IS 1018 CD. REMOVED PIN HOLE AND THREADED HOLE. ADDED 1/2-10-3G ACME THREADS WITH COUNTER BORE. CH'D FINISH WAS ANODIZE RED IS .0004-.0006 NICKEL PLATE AND BAKE NOTE.	9/27/2013	PW	DW



NOTE:  
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

(-15)  
KNOB

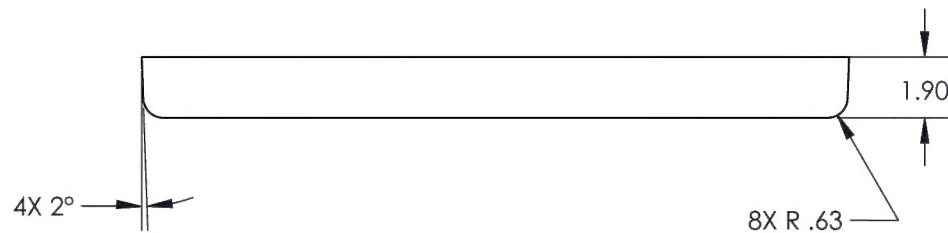
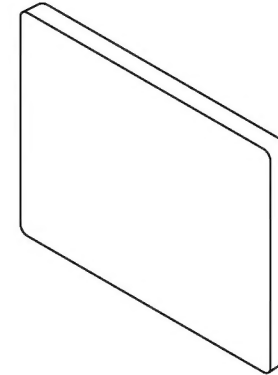
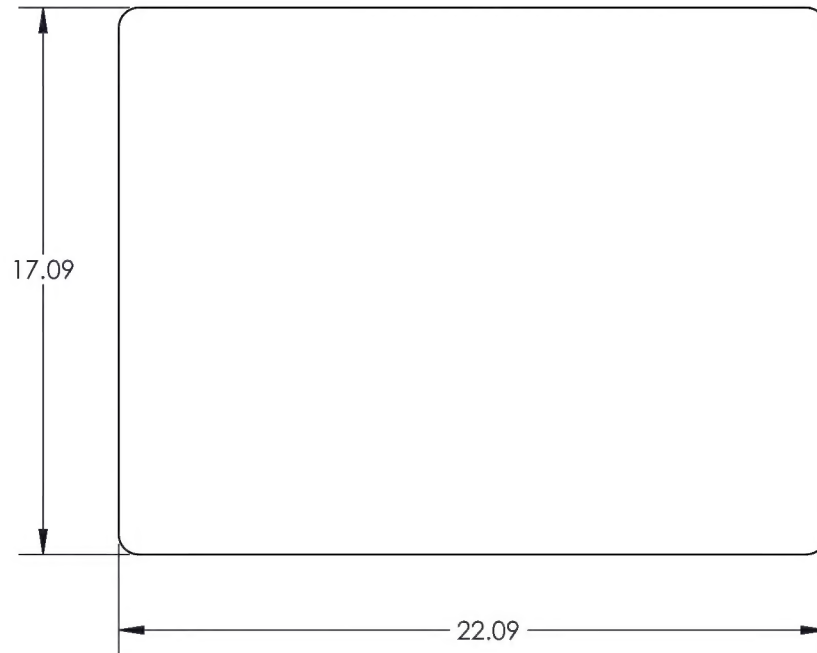
<b>RED BARN MACHINE</b>	
TITLE <b>AW139 GAG BAR</b>	
DWG NO. <b>RBW10003-15</b>	REV <b>1</b>
MAT'L 1018 CD	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH NICKEL PLATE
.X ± .1	SPEC SEE NOTE
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 7/23/2013
SHEET 7 OF 11	




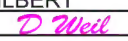


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

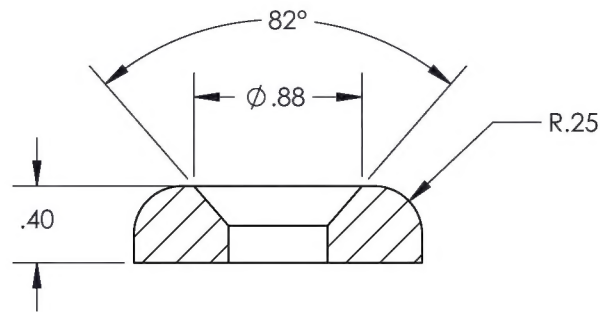
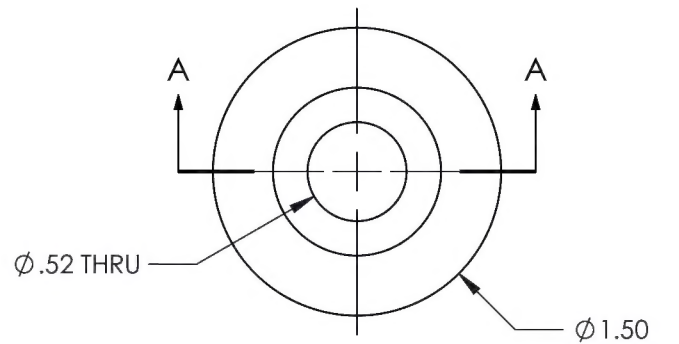


(-35)  
TOP TOOL CUSHION

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> <b>AW139 GAG BAR</b>	
<b>DWG NO.</b> RBW10003-35	<b>REV</b> <b>1</b>
<b>MAT'L</b> Y-20 BLACK	<b>DRAWN BY:</b> GILBERT
<b>UNLESS OTHERWISE SPECIFIED</b> <b>DIMENSIONS ARE IN INCHES</b> .XXX ± .005      FRACTIONS ± 1/32 .XX ± .01      ANGLES ± 5° .X ± .1	<b>APPROVED</b> 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>HEAT TREAT</b> <b>FINISH</b> <b>SPEC</b> <b>USED ON MODEL</b> AW139
<b>SCALE</b> 1:6	<b>DATE</b> 7/24/2013 <b>SHEET 9 OF 11</b>

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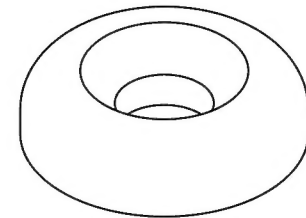
REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-16 ADDED TO BOM AND -1 ASSY.	9/27/13	PW	DW





SECTION A-A  
SCALE 1 : 1

-16

BUTTON

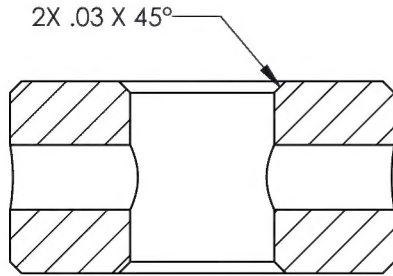


NOTE:  
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

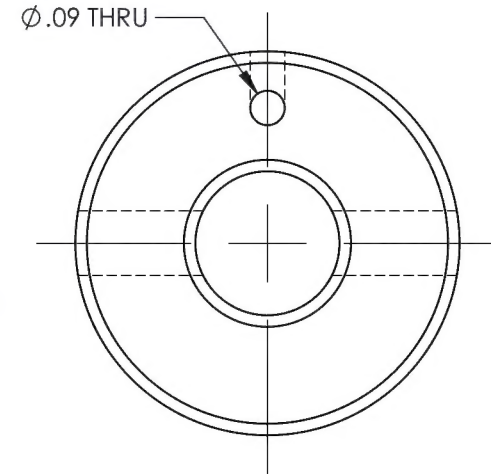
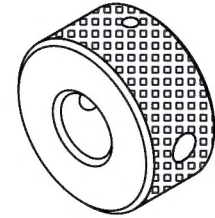
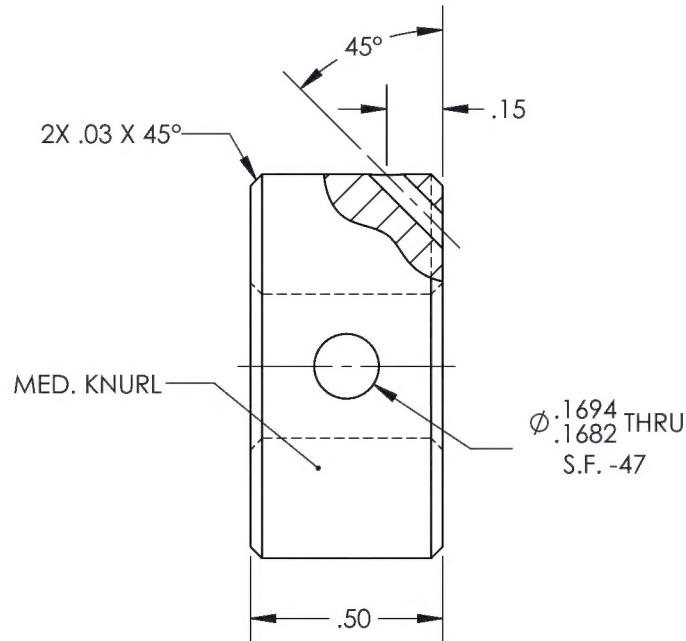
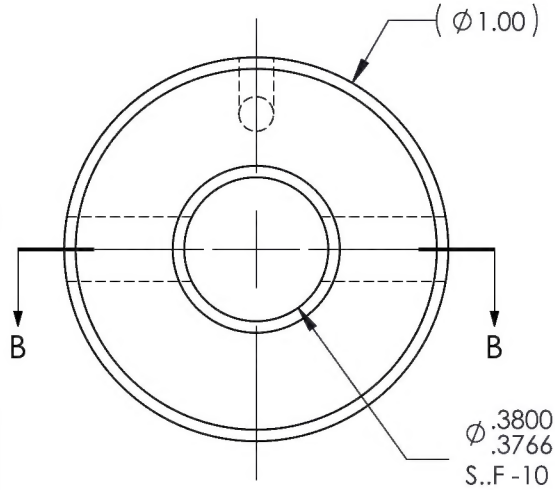
 <b>RED BARN MACHINE</b>	
<b>AW139 GAG BAR</b>	
DWG NO.	<b>RBW10003-16</b>
MAT'L	1018 CD
DRAWN BY:	WALLRICH
APPROVED	
HEAT TREAT	NICKEL PLATE
FINISH	SEE NOTE
SPEC	USED ON MODEL
PLATING	AW139
SCALE	1:4
DATE	9/26/2013
SHEET 10 OF 11	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-10 ADDED KNOB TO PUT ON -9.	12/19/2013	RJC	DW



SECTION B-B



NOTE:  
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

(-10)  
KNOB

<b>RED BARN MACHINE</b>	
<b>AW139 GAG BAR</b>	
DWG NO. <b>RBW10003-10</b>	REV <b>1</b>
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH NICKEL PLATE
.X ± .1	SPEC SEE NOTE
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 2:1	DATE 12/19/2013
SHEET 11 OF 11	